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#Fischer rat parameters (See Model Parameters Spreadsheet for
Documentation)

parms <-c(
BW = 0.25 ,     # Body weight (kg)
QPC = 22.4 ,     # Unscaled Alveolar Vent (L/h/kg^0.75)
QCC = 18.7 ,     # Unscaled Cardiac Output (L/h/kg^0.75)

#FRACTIONAL BLOOD FLOWS TO TISSUES
QLC = 0.183 ,   # Flow to Liver as % Cardiac Output (unitless)
QFC = 0.07  ,   # Flow to Fat as % Cardiac Output (unitless)
QSC = 0.278  ,  # Flow to Slow as % Cardiac Output (unitless)
QKC = 0.14  ,   # Flow to Kidney as % Cardiac Output (unitless)

#FRACTIONAL VOLUMES OF TISSUES
VLC = 0.0366,   # Volume Liver as % Body Weight (unitless)
VLUC = 0.005 ,  # Volume Lung as % Body Weight (unitless)
VFC = 0.1  ,    # Volume Fat as % Body Weight (unitless)
VRC = 0.04644 , # Volume Rapid Perfused as % Body Weight (unitless)
VSC = 0.4  ,    # Volume Slow Perfused as % Body Weight (unitless)
VKC = 0.0073 ,  # Volume Kidney as % Body Weight  (unitless)

#PARTITION COEFFICIENTS PARENT
PL = 1.58 ,     # Liver/Blood Partition Coefficient (unitless)
PLU = 1.85 ,    # Lung/Blood Partition Coefficient (unitless)
PF = 16.99 ,    # Fat/Blood Partition Coefficient (unitless)
PS = 0.60  ,    # Slow/Blood Partition Coefficient (unitless)
PR = 2.29 ,     # Rapid/Blood Partition Coefficient (unitless)
PB = 7.3 ,     # Blood/Air Partition Coefficient (unitless)
PK = 2.29 ,     # Kidney/Blood Partition Coefficient (unitless)

#KINETIC CONSTANTS
MW = 88.5  ,    # Molecular weight (g/mol)

#Revised Metabolism Constants based on Yoon report
# Metabolism in Liver
VMAXC = 99.0  , # Scaled VMax for Oxidative Pathway:Liver (mg/h/BW^0.75)
KM = 99.0  ,    # Km for Oxidative Pathway:Liver (mg/L)

# Metabolism in Lung
VMAXCLU = 99.0 ,  # Scaled VMax for Oxidative Pathway:Lung (mg/h/BW^0.75)
KMLU = 99.0  ,    # Km for Oxidative Pathway:Lung (mg/L)
KFLUC = 0.0  ,     # Pseudo-first order clearance in lung  (L/h/BW^0.75)

# Metabolism in Kidney
VMAXCKid = 99.0 , # Scaled VMax for Oxidative Pathway:Kidney
(mg/h/BW^0.75)
KMKD = 99.0  ,    # Km for Oxidative Pathway :Kidney (mg/L)
KFKIC = 0.0  ,     # Pseudo-first order clearance in Kidney
(L/h/BW^0.75)

#DOSING INFORMATION
TSTOP = 7.0 ,
CONC = 0.0     # Initial concentration (ppm)
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